

Feeding methods and other notes on the Spoon-billed Sandpiper *Eurynorhynchus pygmaeus* in Okinawa

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Two recent comprehensive books about shorebirds indicate at least two feeding methods for the Spoon-billed Sandpiper *Eurynorhynchus pygmaeus*. One is a side-to-side motion of the bill with the head held down as the bird moves forward (Hayman *et al.* 1986). The second is similar except the head is up and the bill nearly perpendicular to the substrate (Johnsgard 1981). A third mode, simple jabbing into the substrate with the head and bill held perpendicular, is hinted at in the source material used in Johnsgard.

On 2 October 1985 at Itoman, Okinawa, Nansei Shoto, Japan, I was able to observe a juvenile Spoon-billed Sandpiper for 30 minutes before heavy rain set in. Although I was not able to view the bird subsequently, two friends, Masahiko Kaneshiro and Masakuni Yamashiro, watched what was almost certainly the same bird for over an hour on 6 October 1985. Our combined notes on foraging by the bird reveal three distinct methods.

The commonest by far was a jabbing motion into the substrate with the head held low and forward while the bird moved about. It is possible that the bird 'strained' material through its bill tip in a duck-like fashion, but we do not believe so. Other local birdwatchers reported seeing the same kind of feeding behaviour. Nearby Rufous-necked Stints *Calidris ruficollis* and a sandpiper tentatively identified as Western *C. mauri*, which seemed to accompany the Spoon-billed, also foraged in this manner. The second type of foraging noted was like the second method mentioned above. Kaneshiro and Yamashiro noticed about five minutes of this and likened it to the 'scything' sometimes performed by Common Greenshank *Tringa nebularia*.

A third method was unique in my experience. On two occasions when I was watching the bird it clearly shuffled its feet about, trampling noticeably up and down as it did so. It then took a quick step or two back and jabbed its bill several times into the riled area. The bill was held roughly perpendicular to the water surface. The action was similar to but not the same as the 'puddling' of wet mud I have observed in Little Ringed Plover *Charadrius dubius* and Common Black-headed Gull *Larus ridibundus*.

The above observations suggest that Spoon-billed Sandpipers are at least as versatile in their feeding behaviour as similar-sized stints *Calidris*, and that the relative scarcity of the species is not due to specialized energy acquisition or dependence on a unique prey. In fact, the enlarged bill tip may be a greater aid to taking prey than a 'regular' billtip (see Johnsgard 1981). Those concerned with conserving the species may want to focus their attention on other aspects of the bird's niche.

On Okinawa, the species has been a very rare migrant. Up to four are seen annually, mostly in October. A few have been seen in other autumn months and also in April. They rarely stay more than a few days. The birds, most often singles, sometimes pairs, usually occur with Rufous-necked Stints. The foraging area at Itoman was a large cement-lined ditch about 800 m long and 10–15 m across. The bird consistently fed where the water was slightly flowing, about 1–1.5 cm deep, with a shallow mud bottom and a dense, unappealing flocculate suspended in the water. Other Spoon-billed Sandpipers have been seen feeding on tidal mudflats and tidal sandflats interspersed with patches of mud and rock.

REFERENCES

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Recent extensions in breeding range of the Yellow Bittern *Ixobrychus sinensis*

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The Yellow Bittern *Ixobrychus sinensis* is found from the Indian subcontinent, far eastern USSR, Japan and China, discontinuously to Papua New Guinea and Micronesia (Hancock and Kushlan 1984). Hitherto the breeding distribution was known to extend throughout most of the South-East Asian region, but not extending into southern peninsular Malaysia (Medway and Wells 1976), north-east or east Burma or south-west Thailand (King *et al.* 1975), Borneo or Wallacea (White and Bruce 1986). The incidence of vagrancy is high (two definite records from Australia) and colonisation has occurred of islands such as the Seychelles, this showing the ability of the species to adapt (Hancock and Kushlan 1984).

Until Cairns (1954) published his finding of a colony on Penang Island, off the north-west coast of the peninsula, the Yellow Bittern had been considered a winter visitor and passage migrant to peninsular Malaysia. However, since the early 1980s, birds have been seen more frequently during the (northern) summer months (D. R. Wells verbally 1987). In July 1986, during work on the breeding cycle of the Cinnamon Bittern *I. cinnamomeus* in ricefields in the Sekinchan area of Selangor State, West Malaysia, I located